

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A radioactive source ~~suitable for use in brachytherapy~~ comprising:

a biocompatible echogenic container;

a radioactive isotope of iodine in the form of iodide ions or an iodine wherein

said iodine or iodide ions is adsorbed on the surface of ~~iodine-containing~~

~~compound; containing covalently bonded iodine wherein the iodine is bonded~~

~~to at least one other atom which is not a halogen, wherein said iodine~~

~~containing compound is adsorbed on the surface of~~

a substantially non-radiation attenuating substrate, with the proviso that when the
iodine is in the form of iodide ions, then the substrate is not an ion exchange resin;

and wherein said substrate and said adsorbed iodine or iodide ions are sealed
within said container.
2. (Canceled)
3. (Canceled)
4. (Previously presented) The radioactive source of claim 1 wherein the isotope of
iodine is iodine-125.

5. (Previously presented) The radioactive source of claim 1 which has an activity in the range of about 200 mCi to about 1200 mCi.
6. (Previously presented) The radioactive source of claim 1 which has an activity in the range of about 0.1 to about 5 mCi.
7. (Canceled)
8. (Currently Amended) The radioactive source of claim 1 wherein the substrate is at least partially formed from a material selected from the group consisting of **natural carbon, polyvinyl alcohol, zeolite, solidified carbonaceous materials, and silica.** ~~alumina, a zeolite, a titanium oxide, silica, a silicon oxide, a zeolite-type trivalent metal silicate, a metal phosphate, a metal hydroxyphosphate, a glass, aluminum nitride, a ceramic, a radiation resistant polymer, bone, coral, coal, limestone, cellulose, starch, agar, gelatin, chitin and hair.~~
9. (Previously presented) The radioactive source of claim 1 wherein the substrate is carbon.
10. (Previously presented) The radioactive source of claim 1 further comprising a binder.
11. (Canceled)

12. (Canceled)
13. (Previously presented) A method of treatment of a condition which is responsive to radiation therapy which comprises the temporary placement of the radioactive source of claim 1 at the site to be treated within a patient for a sufficient period of time to deliver a therapeutically effective dose.
14. (Previously presented) A method for the inhibition of restenosis at a site within the vascular system of a patient which has previously been subjected to PTCA, the method comprising the temporary placement of the radioactive source of claim 1 at the site to be treated within a patient for a sufficient period of time to deliver a therapeutically effective dose.
15. (Canceled)